



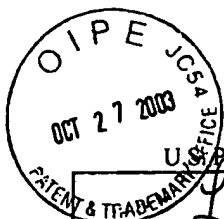
FORM PTO-1479 (REV 7-80)	Atty. Docket No. CBK03073 (3600-374-44)	Application No. 10/650,124
SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	APPLICANT: REZNEK et al.	
	Filing Date: August 27, 2003	Group Art Unit: 3623

U.S. PATENT DOCUMENTS							
EXAMINER'S INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE, IF APPROPRIATE
		5,190,739	5/2/93	MacKay et al.	423	450	
		5,211,932	5/18/93	Blaylock et al.	423	450	
		5,688,317	11/18/97	MacKay et al.	106	476	
		5,974,167	10/26/99	Reszler	382	141	
		6,156,837	12/5/00	Branan, Jr. et al.	524	495	
		2003/0162876 A1	8/28/03	Vanier et al.	524	437	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
R		Attachment A - Development History					
		Strom, "Wetting studies related to offset printing," Vol. 50-04C, pp. 768 (1988) Abstract only					
		Tikhonov, "On the evaluation of the work of adhesion, cohesion, and surface tension of high - viscous and solid bodies," Kolloidn Zh, Vol. 53, No. 3, pp. 552-558 (1991) Abstract only					
		Janczuk, et al., "Surface free energy components and adsorption properties of some porous glasses," Mater Chem Phys. Vol. 25, No. 2, pp. 185-198 (1990) Abstract only					
		Janczuk, et al., "Surface free energy of celestite and its flotation activity," Colloids Surf. Vol. 35, No. 1, pp. 41-48 (1989) Abstract only					
		Wojcik et al., "Gas-adsorption studies on correlations between the flotability of minerals and the work of water adhesion to their surfaces," Colloids Surf. Vol. 30, No. 3-4, pp. 275-285 (1988) Abstract only					
		Lipatov, "Adhesion at the polymer mixtures-solid interface," Vide, Couches Minces, Vol. 50 (274), pp. 415-420 (1994) Abstract only					
		Hill, "Wall slip in polymer melts: A pseudo-chemical model," J. Rheol. Vol. 42, No. 3, pp. 581-601 (1998) Abstract only					
		Scheie, "The upward force on liquid in a capillary tube," Am. J. Phys. Vol. 57, No. 3, pp. 278-289 (1989) Abstract only					
		Lee et al., "Effects of polymer-filler interaction on the mechanical properties of nylon 6,6 filled with organosilane-treated fillers," J. Adhes. Sci. Technol., Vol. 3, No. 4, pp. 291-303 (1989) Abstract only					
		Abramzon et al., "Determination of the work of adhesion and cohesion" ZH. Prikladnoi Khim, Vol. 53, No. 5, pp. 1040-1043 (1980) Abstract only					
		Mangipudi et al., Direct measurement of molecular level adhesion between poly(ethylene terephthalate) and polyethylene films: Determination of surface and interfacial energies," J. Adhesion Sci. Technol., Vol. 8, No. 11, pp. 1251-1270 (1994) Abstract only					
		Owen, "Surface properties of silicone release coatings," Proc. First Internat. Congress on Adhesion Science and Technology, pp. 255-263 (1995) Abstract only					
		Kaya, "The effect of pore fluid contamination on a selected physico-chemical parameters of fine grained soils (Adsorption, Conductivity), Vol. 57-05B, p. 3354 (1996) Abstract only					

NO COPIES PROVIDED

Alexander

2/6/07



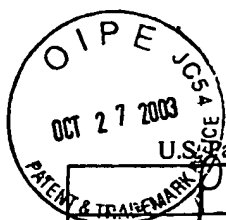
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	5,352,289	10/4/94	Weaver et al.	106	476	
	5,362,794	11/8/94	Inui et al.	624	496	
	5,382,621	1/17/95	Laube	524	496	
	5,426,148	6/20/95	Tucker	524	496	
	5,428,099	6/27/95	Morrar et al.	524	495	
	5,430,087	7/4/95	Carlson et al.	524	496	
	5,480,626	1/2/96	Klasen et al.	423	449.1	
	5,534,578	7/9/96	Wideman et al.	524	396	
	5,547,609	8/20/96	Fujii et al.	252	511	
	5,639,817	6/17/97	Probst et al.	524	496	
	5,643,991	7/1/97	Stipe et al.	524	496	
	5,652,298	7/29/97	Murray	524	571	
	5,696,197	12/9/97	Smith et al.	524	495	
	5,705,555	1/6/98	Guilfoy et al.	524	495	
	5,714,096	2/3/96	Dorfman	252	511	
	5,723,531	3/3/98	Visel et al.	524	496	
	5,733,480	3/31/98	Lee et al.	252	511	
	5,801,209	9/1/98	Chung et al.	521	99	
	5,859,120	1/12/99	Karl et al.	524	495	
	5,877,250	3/2/99	Sant	524	496	
	5,877,251	3/2/99	Sant	524	496	
	6,013,737	1/11/00	Takagishi et al.	525	332.7	
	6,046,266	4/4/00	Sandstrom et al.	524	492	
	6,056,933	5/2/00	Vogler et al.	423	449.1	
	6,084,015	7/4/00	Chino et al.	524	189	
	6,086,792	7/11/00	Reid et al.	252	511	
	6,096,833	8/1/00	Araki et al.	525	342	
	6,099,818	8/8/00	Freund et al.	423	449.1	
	6,277,350 B1	8/21/01	Gerspacher	423	449.1	
	6,228,928 B1	5/8/01	Soeda et al.	524	495	
	6,391,274 B1	5/21/02	Vogler et al.	423	275	

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	6,410,630 B1	6/25/02	Hoover et al.	524	365	
	US 6,448,309 B2	9/10/02	Mahmud et al.	523	215	
	US 2001/0036995 A1	11/1/01	Mahmud et al.	524	495	
	US 2002/0077409 A1	6/20/02	Sakaki et al.	524	496	
	US 2002/0107318 A1	8/8/02	Yamada et al.	524	495	
	US 2002/0156177 A1	10/24/02	Freund	524	496	
	US 2002/0173582 A1	11/21/02	Schmidt	524	504	

## FOREIGN PATENT DOCUMENTS

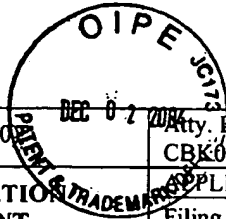
DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION YES	TRANSLATION NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	"Bound Rubber and Carbon Black Reinforcement," by E. M Dannenberg, 1986, pp. 512-524.
	"Filler-Elastomer Interactions. Part VII. Study on Bound Rubber," by Siegfried Wolff et al., reprinted from RUBBER CHEMISTRY AND TECHNOLOGY, Vol. 66, No. 2, May-June 1993, 163-177.
	"Standard Test Method for Carbon Black - Iodine Adsorption Number," ASTM Designation D 1510-99, pp. 271-275.
	"Standard Test Method for Carbon Black - CTAB (Cetyltrimethylammonium Bromide) Surface Area," ATSM Designation D 3765-99, pp. 563-568.
	"Standard Test Methods for Carbon Black - Surface Area by Multipoint B.E.T. Nitrogen Adsorption," ATSM Designation D 4820-97, pp. 763-769.
	"Standard Test Methods for Carbon Black - External Surface Area by Multipoint Nitrogen Adsorption," ATSM Designation D 5816-96, pp. 878-880.
	"Standard Test Method for Carbon Black - Total and External Surface Area by Nitrogen Adsorption," ATSM Designation D 6556-00a, pp. 970-974.

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FORM PTO-1449 (REV 7-80)	Atty. Docket No. CBK03073 (3600-374-44)	Application No. 10/650,124
SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	APPLICANT: REZNEK et al.	
	Filing Date: August 27, 2003	Group Art Unit: 3623

<input checked="" type="checkbox"/>	Skaarup, "The three dimensional solubility parameter and its use - II. Pigmented Systems," pp. 28-42 (no date)
<input checked="" type="checkbox"/>	Grubenmann, "The solvent dependence of the solubility of organic solids, and solubility parameter theory: investigation by means of an organic pigment," Dyes and Pigments, Vol. 21, pp. 273-292 (1993)
EXAMINER <i>Alexander</i>	DATE CONSIDERED <i>2/6/07</i>
<b>*EXAMINER:</b> Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	



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INFORMATION DISCLOSURE STATEMENT				APPLICANT: REZNEK et al.			
				Filing Date: August 27, 2003		Group Art Unit: Unassigned	
U.S. PATENT DOCUMENTS							
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		3,659,896	5/2/72	Smith et al.	296	93	
		4,071,496	1/31/78	Kraus et al.	260	42.36	
		4,088,628	5/9/78	Bernstein et al.	260	42.46	
		4,255,296	3/10/81	Ogawa et al.	260	5	
		4,259,218	3/31/81	Haws	260	5	
		4,360,627	11/23/82	Okado et al.	524	496	
		4,478,973	10/23/84	Misono et al.	524	496	
		4,540,560	9/10/85	Henderson et al.	423	445	
		4,548,980	10/22/85	Nagata et al.	524	495	
		4,678,830	7/7/87	Sato et al.	524	495	
		4,690,965	9/1/87	Hirata et al.	524	236	
		4,721,740	1/26/88	Takeshita et al.	523	215	
		4,914,147	3/3/90	Mouri et al.	524	495	
		5,093,407	3/3/92	Komai et al.	524	495	
		5,124,396	6/23/92	Branon, Jr., et al.	524	496	
		5,128,395	7/7/92	Terakawa et al.	524	274	
		5,162,421	11/10/92	Ue et al.	524	495	
		5,194,488	3/16/93	Piestert et al.	524	703	
		5,231,129	7/27/93	Misono	524	496	
		5,232,974	8/3/93	Branan, Jr. et al.	524	495	
		5,288,788	2/22/94	Shieh et al.	524	495	
		5,292,790	3/8/94	Shimizu et al.	524	496	
		5,310,777	5/10/94	Sekido et al.	524	496	
		5,321,072	6/14/94	Misono	524	496	
	5,322,724	6/21/94	Levens	428	57		
	5,322,874	6/21/94	Fujii et al.	524	227		

Alexander

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FORM PTO-1449 (REV. 12-80)	Atty. Docket No. CBK03073 (3600-374-44)	Application No. 10/650,124
<b>SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT</b>	APPLICANT: REZNEK et al.	
	Filing Date: August 27, 2003	Group Art Unit: 3623

	Qin, "Adhesion properties of polymeric materials (Asphalts, Cohesion), Vol. 57-02B, p. 1260 (1995) Abstract only
	Stepanov, "Electrocapillary behaviour of liquid bismuth in binary melts of strontium chloride with sodium and cesium chlorides," Ehlektrokhimiya, Vol. 30, No. 8, pp. 1032-1038 (1994) Abstract only
	Kulavik, et al., "Kinetics of the molecular interactions in some extraction system," ISEC '88 International solvent extraction Conference, Vol. 2, pp. 77-78 (1988) Abstract only
	Nardin et al., "Stress transfer analysis in fibre/elastomer interfaces," Comptes-Rendus des Huitiemes Journées Nationales sur les Composites, "pp. 289-300 (1992) Abstract only
	Maugis, "Adherence and Fracture Mechanics," Adhesive Bonding, pp. 303-335 (1991) Abstract only
	Wan et al., "Surface forces at crack interfaces in mica in the presence of capillary condensation," Acta Metallurgica et Materialia, Vol. 38, No. 11, pp. 2073-2083 (1990) Abstract only
	Savenko et al., "Effect of diamond-like carbon coatings on the mechanical properties of subsurface layers of single crystals of silicon," Physics and Chemistry of Materials Treatment, Vol. 31, No. 2, pp. 149-153 (1997) Abstract only
	Lellig et al., "Glass and polymer: wetting and adhesion," Glass Science and Technology, Vol. 69, No. 11, pp. 357-367 (1996) Abstract only
	Maugis, "Adherence of elastomers: fracture mechanics aspects," Journal of Adhesion, Vol. 23, No. 1, pp. 61-66 (1987) Abstract only
	Riande et al., "Fundamental aspects of the adhesion of polymers," Revista de Plasticos Modernos, Vol. 80, No. 530, pp. 170-179 (2000) Abstract only
	Gilbert, "Surface treatments for particulate fillers in plastics," Plastics Additives. AN A-Z reference, pp. 590-603 (1998) Abstract only
	Maltese, "Interfacial energy between polymers," Materie Plastiche ed Elastomeri, Vol. 64, Nos. 1/2, pp. 74-78 (1999) Abstract only
	Cherry et al., "Predicting work of adhesion using molecular modeling," Adhesion '96, Conference Proceed., Vol. 1, pp. 299-304 (1996) Abstract only
	Feinerman et al., "Rule of interfacial equilibrium," J. Adhesion, Vol. 60, Nos. 1-4, pp. 99-112, (1997) Abstract only
	Geraghty et al., "Investigation of parameters influencing bioadhesive properties of myverol 18-99/water gels," Biomaterials, Vol. 18, No. 1, pp. 63-67 (1997) Abstract only
	Wimolkitsak et al., "Directly paintable, high adhesion polyolefin compounds, Plast' 21 No. 43, pp. 44-47 (1995) Abstract only
	Drzal, et al., "Adhesion of carbon fibres to polycarbonate matrices: interphase composition and structure," Antec '95, Vol. II, Conference Proceedings, pp. 2877-2881 (1995) Abstract only
	Moore, "Wetting in rubber-to-metal bonding agents," Rubb. Plast. News, Vol. 24, No. 7, pp. 17-18 (1994) Abstract only
	Mangipudi et al., "Adhesion of thin polymer films: Effects of surface and interfacial energies and rheological properties," Antec '93 Conference Proceedings, Vol. III, pp. 3099-3100, (1993) Abstract only
	Bautista et al., "Surface characterization of polypropylene used as a matrix in composite materials," Rev. Plast. Mod. Vol. 66, No. 449, pp. 505-509 (1993) Abstract only

NO COPIES PROVIDED

Alexander

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FORM PTO-1449 (REV 7-80)	App. Docket No. BK03073 (3600-374-44)	Application No. 10/650,124
<b>SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT</b>	APPLICANT: REZNEK et al.	
	Filing Date: August 27, 2003	Group Art Unit: 3623

	Pritykin et al., "New thermodynamic characteristics of polymer adhesive properties," International Adhesion Conference, p 11.1-3 (1984) Abstract only
	Moskvitin, "Physicochemical Principles of Gluing and Adhesion processes, NSF, Rpt. No. SFCISI-Agr (TT-68-50368, p. 197 (1969) Abstract only
	Mayne, "Further developments with epoxy/polyamine films," Corros. Sci., Vol. 35, Nos. 5/8, pp. 1359-1361 (1993) Abstract only
	Padday, "Spreading, wetting, and contact angles," J. Adhes. Sci. Tech., Vol. 6, No. 12, pp. 1347-1358 (1992) Abstract only
	Mark, "Future improvements in cohesive and adhesive strength of polymers. I.," Adhesives Age, Vol. 22, No. 7, pp. 35-40 (1979) Abstract only
2	Hansen, "The three dimensional solubility parameter - key to paint component affinities: I. Solvents, Plasticizers, Polymers, and Resins," Journal of Paint Technology, Vol. 39, No. 505, pp. 104-117 (1967)
	Hansen, "The three dimensional solubility parameter - key to paint component affinities: II and III - II. Solvents, Plasticizers, Polymers, and Resins," Journal of Paint Technology, Vol. 39, No. 511, pp. 505-510 (1967)
	Hansen, "III. Independent calculation of the parameter components," Journal of Paint Technology, Vol. 39, No. 511, pp. 511-514 (1967)
	Hansen et al., "On the use of cohesion parameters to characterize surfaces," J. Adhesion, Vol. 15, pp. 275-286 (1983)
	Hansen, "Cohesion parameters for surfaces, pigments, and fillers," Surface Coatings International Vol. 8, pp. 386-391, (1997)
	Shareef et al., "Suspension interaction of pigments in solvents: characterization of pigment surfaces in terms of three-dimensional solubility parameters of solvents," Journal of Coatings Technology, Vol. 58, No. 733, pp. 35-44 (1986)
	Vinther, "Application of the concepts solubility parameter and pigment charge," Chemie des Peintures Engl. Vol. 34, No. 10, pp. 363-372 (1971)
	Schreiber, "Solvent balance, dispersion and rheological properties of pigmented polymer compositions," Journal of Paint Technology, Vol. 46, No. 598, pp. 35-39 (1974)
	Burrell, "The challenge of the solubility parameter concept," Journal of Paint Technology, Vol. 40, No. 520, pp. 197-208 (1968)
	Trudgian, "The pattern of solvent-resin-pigment affinities," Official Digest, Presented at the 41 <sup>st</sup> Annual Meeting of the Federation of Societies for Paint Technology, pp. 1210-1231 (1963)
	Schroder, Colloid chemistry aids to formulating inks and paints, Harmonization of the energetics of raw materials by using the solubility parameter concept," Vol. 5, No. 98, pp. 334-340 (no date)
	Chasey, "Methods for evaluating oil/polymer interactions in carbon black filled compounds," Rubber World, pp. 35-40 (1993)
	Wolff, et al., "Filler-elastomer interactions. Part VII. Study on bound rubber," Rubber Chemistry and Technology, Vol. 66, No. 2, pp. 163-177 (1993)
	Barton, "CRC Handbook of solubility parameters and other cohesion parameters," pp. 1-21, (1991)
2	Kaya, et al., "Interfacial parameters and work of adhesion in soil-liquid systems," Geotechnical Testing Journal, Vol. 23, No. 4, pp. 464-471 (2000)

NO COPIES REQUIRED

Alexander

2/6/07



U.S. Patent Application No. 10/650,124

Page 4 of 4

PATENT & TRADEMARK	"Roles of Work of Adhesion between Carbon Blacks and Thermoplastic Polymers on Electrical Properties of Composites," by Soo-Jin Park et al., published in the JOURNAL OF COLLOID AND INTERFACE SCIENCE 255, pp. 145-149 (2002).
	"Component Interactions and the Stability of Some Pigment/Polymer Dispersions," by P. Mukhopadhyay et al., published in the JOURNAL OF APPLIED POLYMER SCIENCE, Vol. 67, pp. 245-253 (1998).
	"Adhesion and Components of Solid Surface Energies," by John H. Clint, published in CURRENT OPINION IN COLLOID & INTERFACE SCIENCE 6, pp. 28-33 (2001).
	"Estimation of the Reliability of Hansen-Parameters of Photooxidative Degraded Polymer Films by Contact Angle Measurements," by Anita Horn et al., Hildesheim, Germany, pp. 1-12.
	"Basic and Acidic Surface Oxides on Carbon Fiber and Their Influence on the Expected Adhesion to Polyamide," by A. Bismarck et al., published in COLLOIDS AND SURFACES, A: Physiochemical and Engineering Aspects 159, pp. 341-350 (1999).
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12	3,229,507	1/18/66	Sljaka et al.	73	59	
	4,093,421	6/6/78	Jerkins	23	259.5	
	4,878,379	11/7/89	Deer	73	60	
	4,992,190	2/12/91	Shtarkman	252	62.52	
	5,303,578	4/19/94	Williams et al.	73	54.24	
	5,405,623	4/11/95	Barkalow et al.	426	5	
	5,792,941	8/11/98	Rye et al.	73	53.01	
	2003/0097871 A1	5/29/03	Mansky	73	64.49	
	2003/0164027 A1	9/4/03	Terrom	73	64.48	

## FOREIGN PATENT DOCUMENTS

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12	EP 0253290	1/20/88	EPO	C03G	9/08	X	
	EP 0453625	10/30/91	EPO	C09K	7/02	X	
	EP 0919801	6/2/99	EPO	G01N	13/02	No TRANSLATION	See Int'l. Search Report
X	GB 2378716	2/19/03	Great Britain	C09K	7/02	X	

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

<del>International Search Report and Written Opinion for PCT/US2004/010261 dated October 19, 2004.</del>
<del>International Search Report and Written Opinion for PCT/US2004/010267 dated October 15, 2004.</del>
<del>International Search Report and Written Opinion for PCT/US2004/010259 dated October 21, 2004.</del>

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